

3-004.01 SALINAS VALLEY - 180/400 FOOT AQUIFER

Basin Boundaries

Summary

The 180/400-Foot Aquifer groundwater subbasin is part of the Salinas Valley groundwater basin in Monterey County and contains parts of the towns of Moss Landing, Salinas, and Gonzales. The subbasin generally lies within the Pressure Subarea of the Monterey County Water Resources Agency. The subbasin extends from the Pacific Ocean through the Salinas River Valley to the town of Gonzales, which is the approximate limit of confining conditions in an up-valley direction. The northeastern subbasin boundary generally coincides with the limit of the confining conditions of the Aquifer (DWR 1946a) and the location of State Highway 101. The subbasin is bounded on the southwest by the Sierra de Salinas Mountains and a fault and groundwater divide which separates it from the Monterey subbasin. The basin boundary is defined by nine (9) segments detailed in the descriptions below.

Segment Descriptions

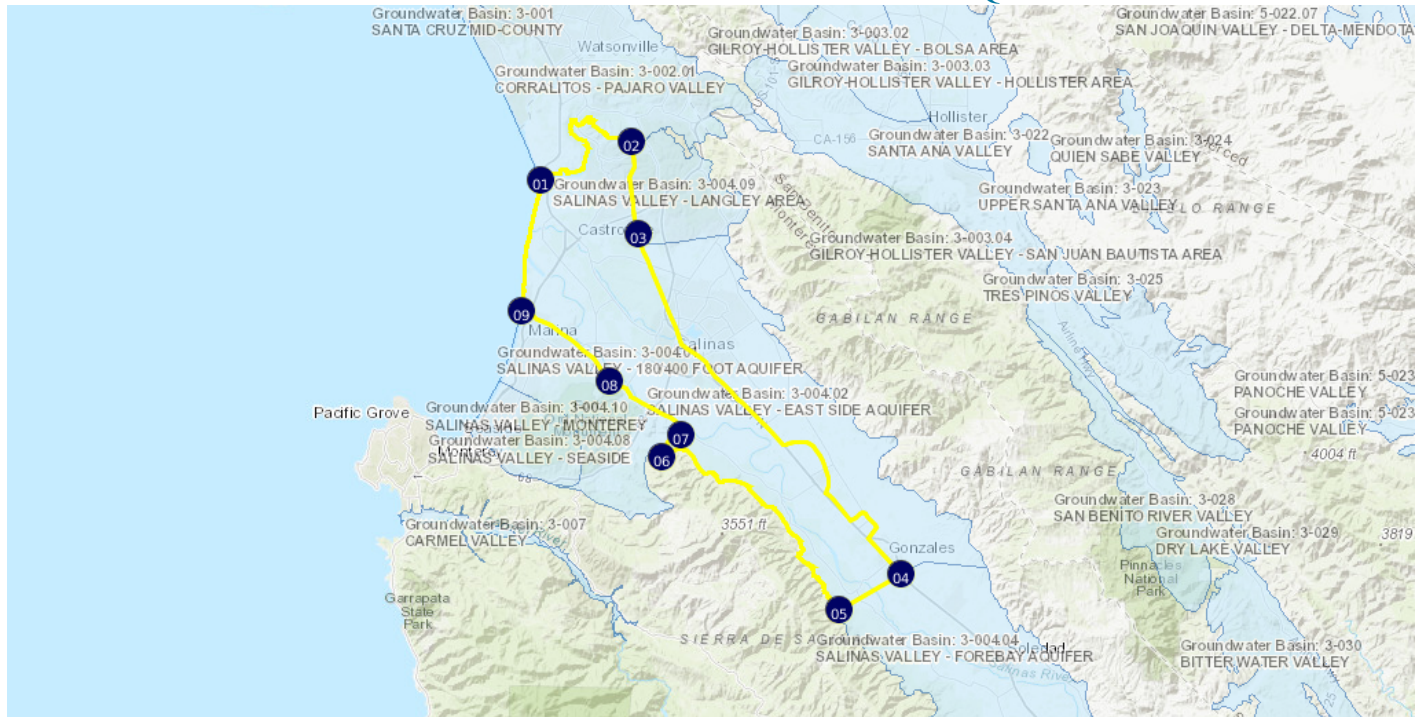
<u>Segment Label</u>	<u>Segment Type</u>	<u>Description</u>	<u>Ref</u>
1-2	^I Water Agency	Starts at point (1) and follows the Pajaro Valley Water Management Agency boundary to point (2).	{a}
2-3	^I Groundwater Divide	Continues from point (2) and generally follows the limit of confining conditions to point (3).	{b}
3-4	^I Groundwater Divide	Continues from point (3) and follows the limit of confining conditions and the location of Highway 101 to point (4).	{b}
4-5	^I Groundwater Divide	Continues from point (4) and follows the approximate limit of confining conditions in an up-valley direction to point (5).	{b}
5-6	^E Alluvial	Continues from point (5) and follows the contact of Quaternary terrace deposits with metamorphic and granitic rocks to point (6).	{c}
6-7	^I Alluvial	Continues from point (6) and follows the contact of Quaternary terrace deposits with Miocene marine sediments to point (7).	{c}
7-8	^I Fault	Continues from point (7) and generally follows Reliz Fault to point (8).	{d}
8-9	^I Groundwater Divide	Continues from point (8) and follows a groundwater divide to point (9).	{b}
9-1	^E Ocean	Continues from point (9) and follows the Pacific Ocean and ends at point (1).	{e}

Significant Coordinates

<u>Point</u>	<u>Latitude</u>	<u>Longitude</u>	
1	36.807954943	-121.789677894	
2	36.838835741	-121.698152472	
3	36.764890714	-121.691573755	
4	36.493051592	-121.42878757	
5	36.464919614	-121.491188321	
6	36.586645218	-121.667713129	
7	36.604927629	-121.648883015	
8	36.647921584	-121.721110418	
9	36.703209794	-121.808816343	

Map

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<https://sgma.water.ca.gov/webgis/?appid=160718113212&subbasinid=3-004.01>

References

Ref	Citation	Pub Date	Global ID
{a}	California Department of Water Resources (DWR), Water Agencies Dataset.URL: https://gis.water.ca.gov/app/bbat/	2016	48
{b}	California Division of Water Resources, Salinas Basin Investigation Summary Report, Bulletin 52-B, T.R. Simpson, J.W. McPartland, W.I. Nilsson, G.M. Vickroy, T.K. Farrington. http://www.mcwra.co.monterey.ca.us/documents/Bulletin_52-B__1946.pdf	August 27, 1946	79
{c}	California Geological Survey (CGS), Geologic Atlas of California Map No. 020, Santa Cruz Sheet, , 1:250,000, Charles W. Jennings and Rudolph G. Strand .URL: http://www.quake.ca.gov/gmaps/GAM/santacruz/santacruz.html	1958	34
{d}	California Geological Survey (CGS), Fault Activity Map of California, Geologic Data Map No. 6.URL: http://earthquake.usgs.gov/hazards/qfaults/	2010	40
{e}	United States Geological Survey (USGS), National Hydrography Dataset, Flowline Dataset for California, note: Coordinated effort among the United States Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS), the United States Geological Survey (USGS), and the Environmental Protection Agency (EPA).URL: http://nhd.usgs.gov/data.html	2/1/2016	1

Footnotes

- I: Internal
- E: External